



**Open Source  
Network  
System  
Management**



# Open Source Monitoring

## Overview



- Infrastructure Monitoring
  - Nagios
- Capacity Monitoring
  - Cacti
- Network Monitoring
  - NTOP
- Security Monitoring
  - Snort, Open VAS, Packetfence

# Open Source Monitoring

## Infrastructure Monitoring with Nagios

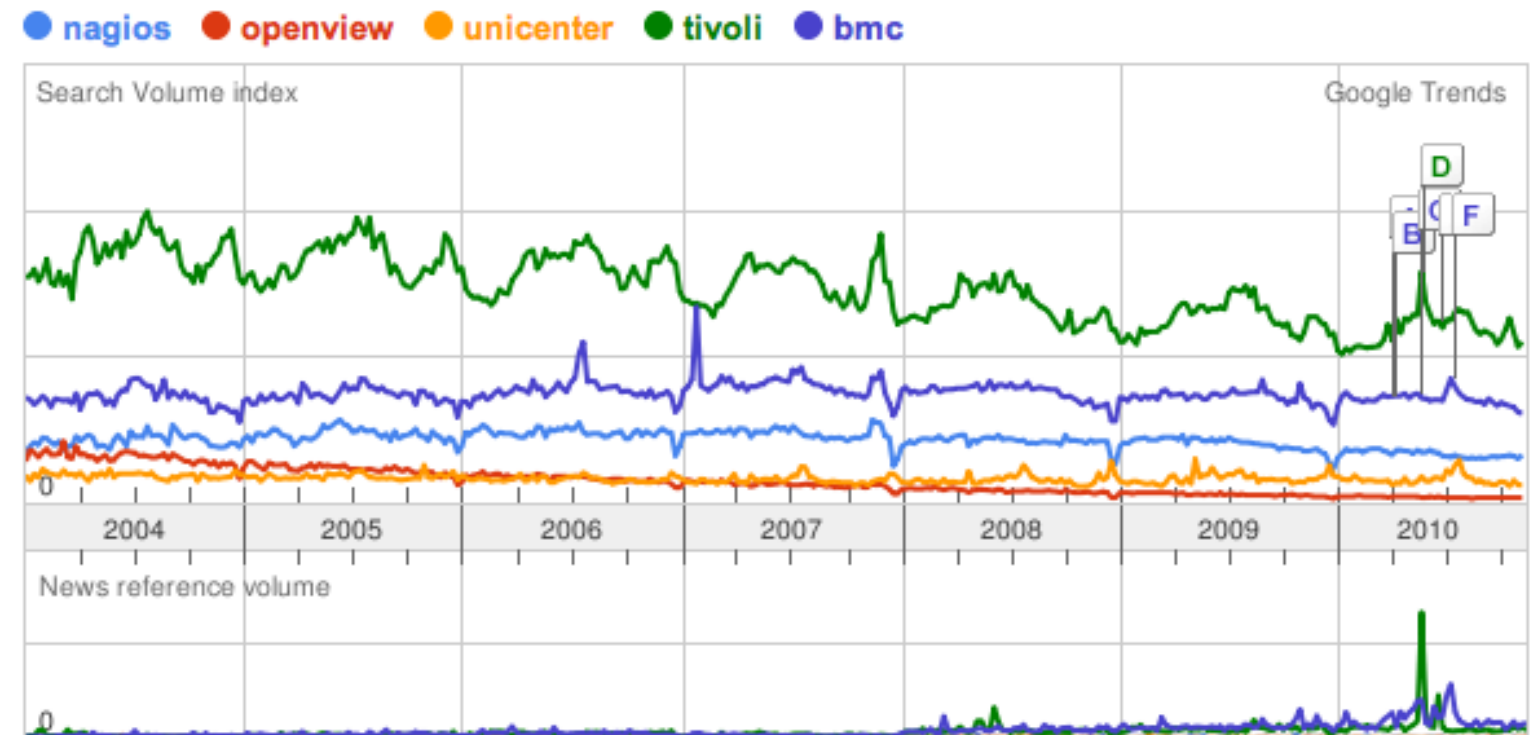
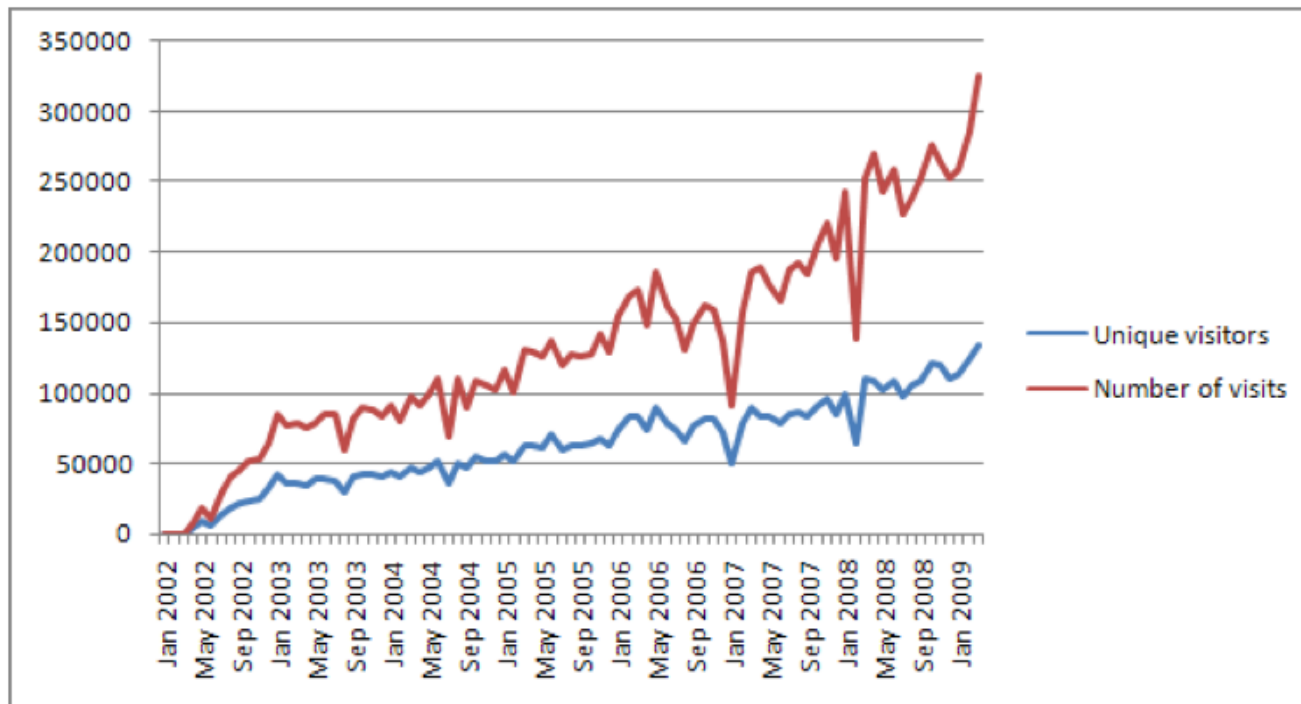


- Nagios Core
- Nagios Core Addons
  - NDO, N2FS, Livestatus
  - Distributed monitoring Merlin  
Mod\_Gearman, DNX, NCSA
- Nagios Business Process Monitoring
- NagVis
- Configuration Tools, Web-GUI
- Plugins [nagiosexchange.org](http://nagiosexchange.org)

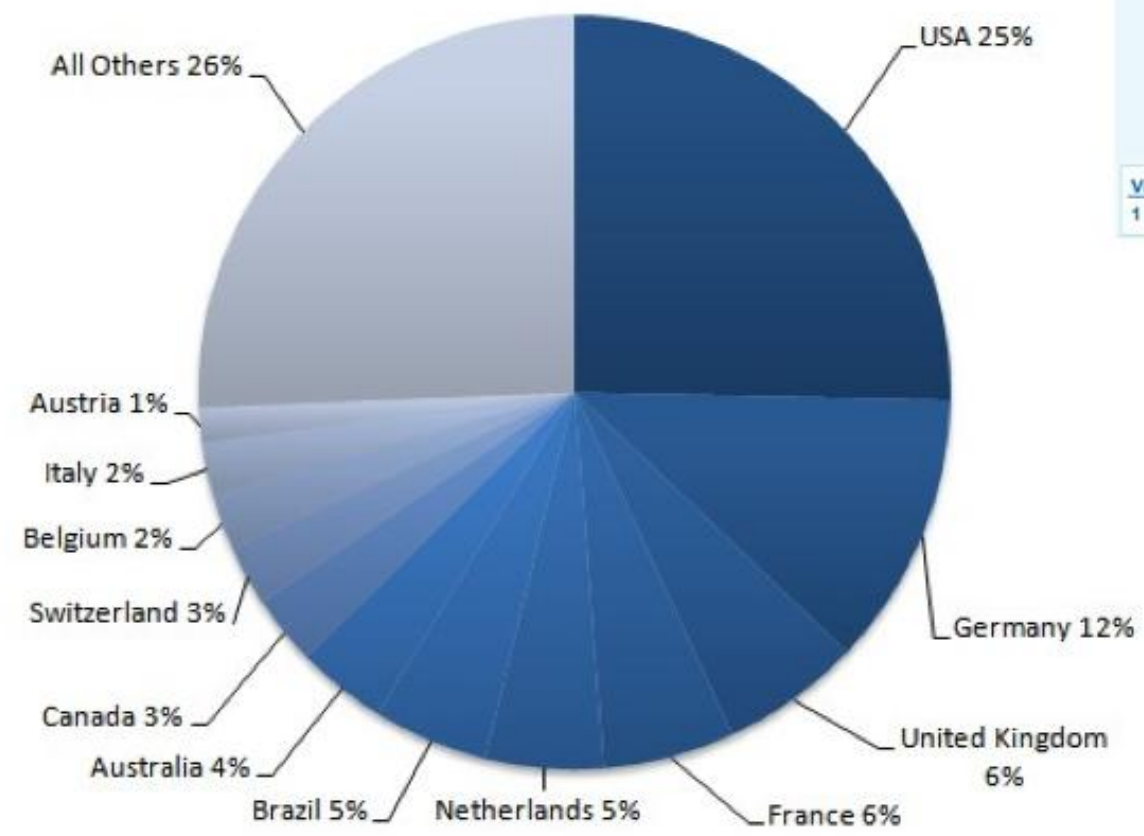


# Vibrant Community

## Nagios



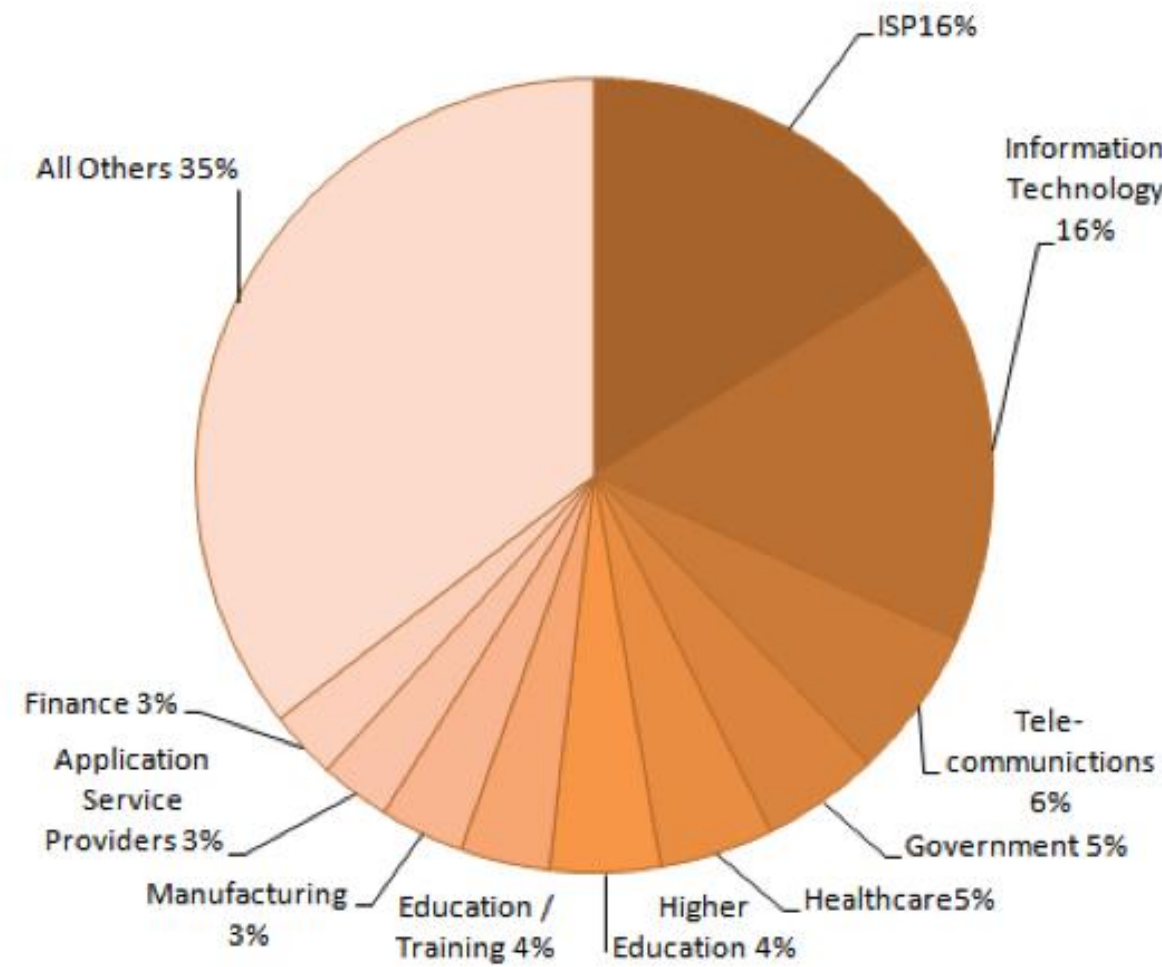
## Top Countries



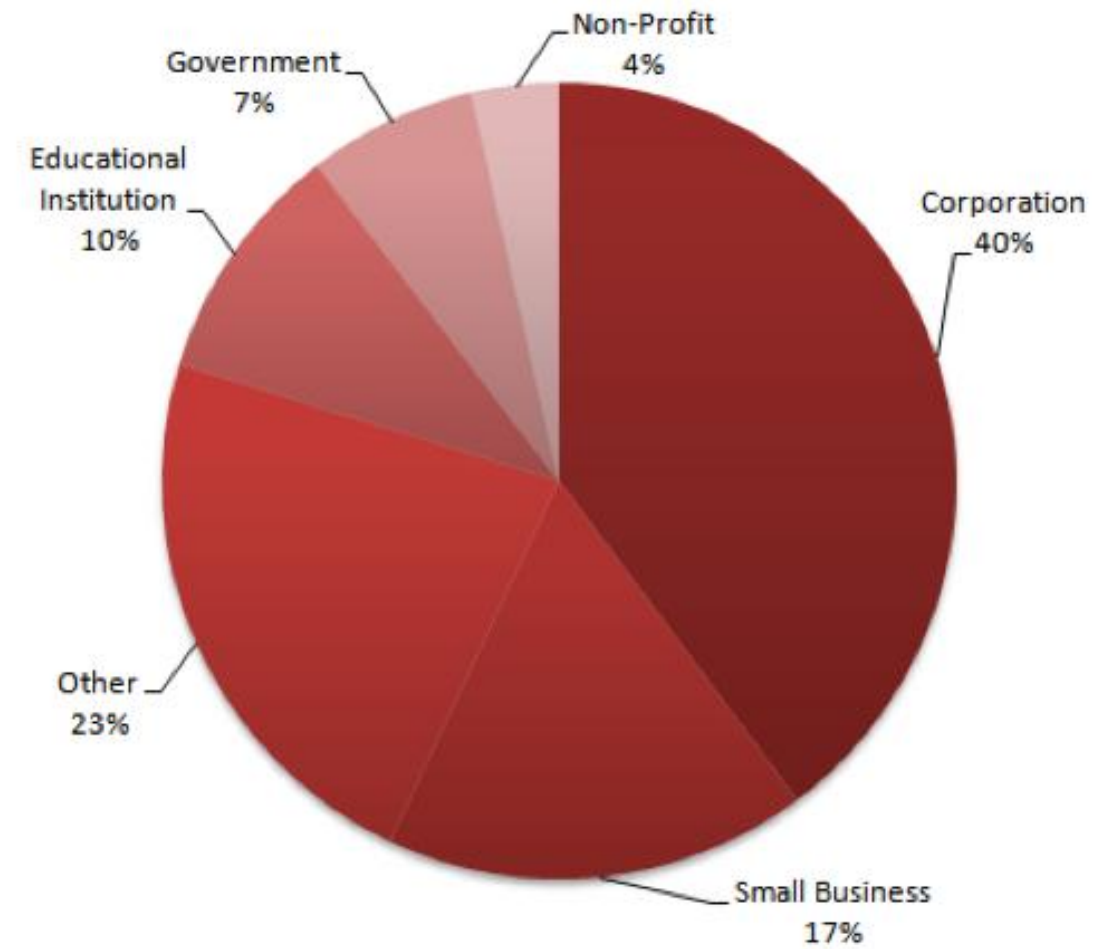
# Demographics



## Top Industries

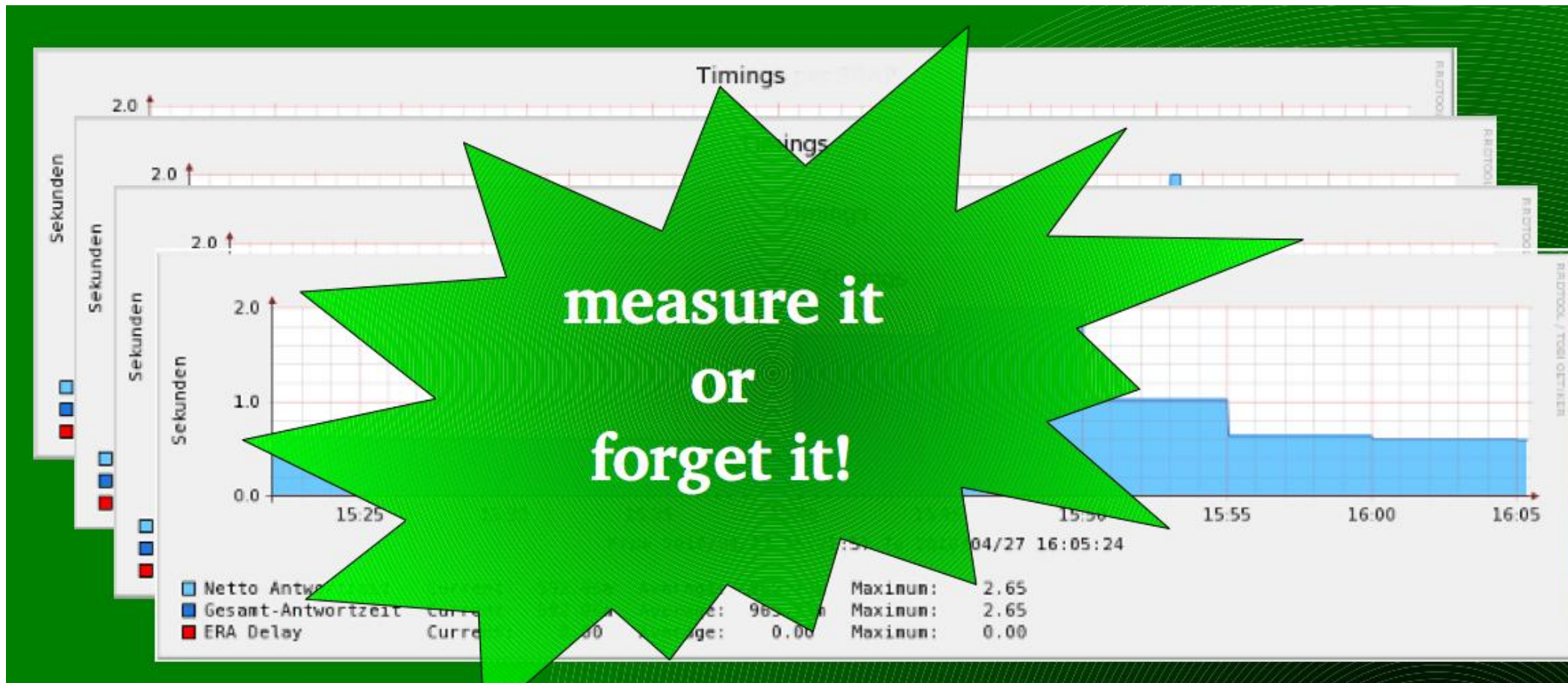


## Organization Types



# Open Source Monitoring

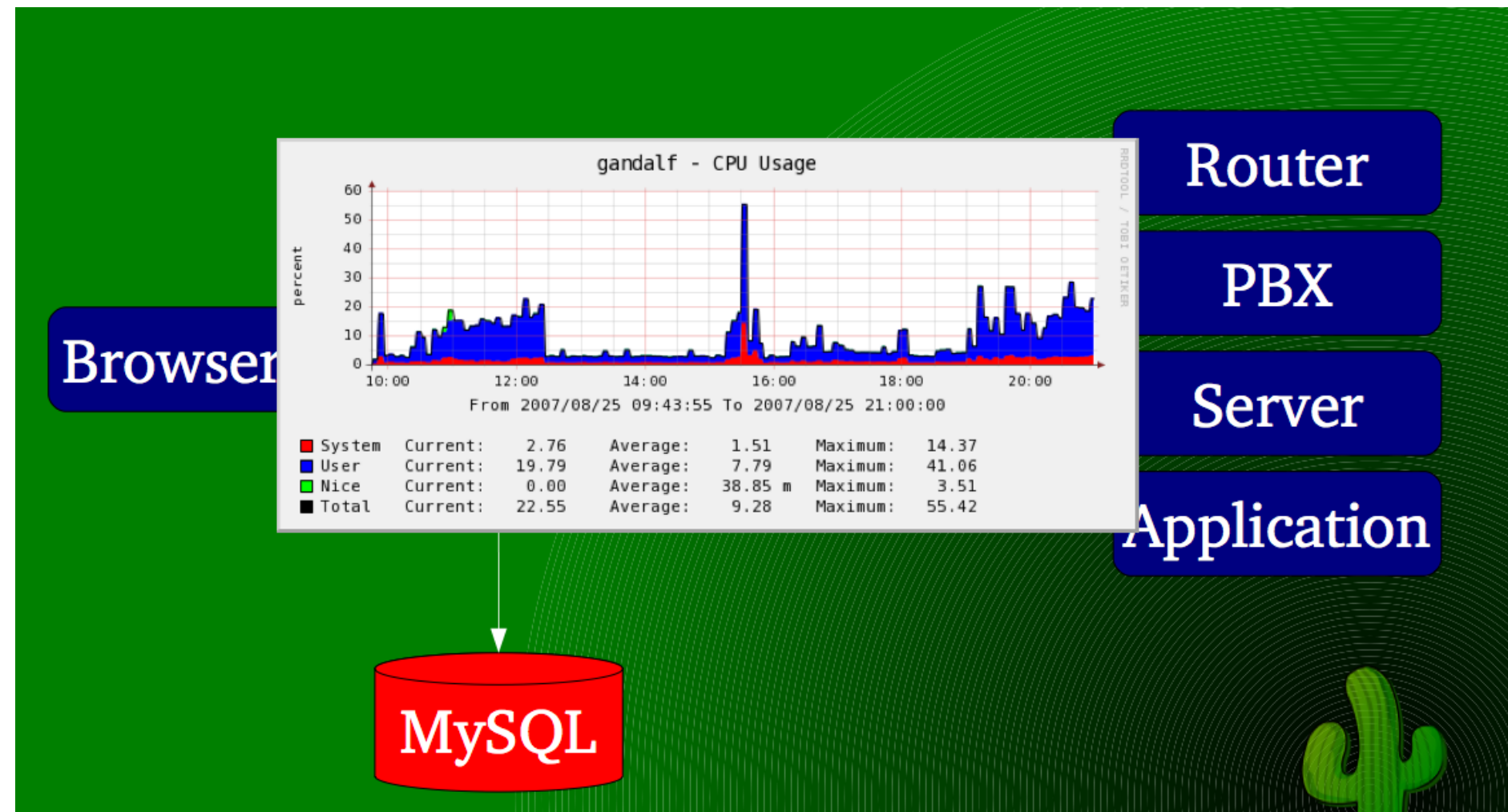
## Resource Monitoring with Cacti



# Open Source Resource Monitoring Architecture Cacti



- Fast, extensible data collector
- Template engine, template
- repository Plugin Architecture
- plugin repository



# Vibrant community

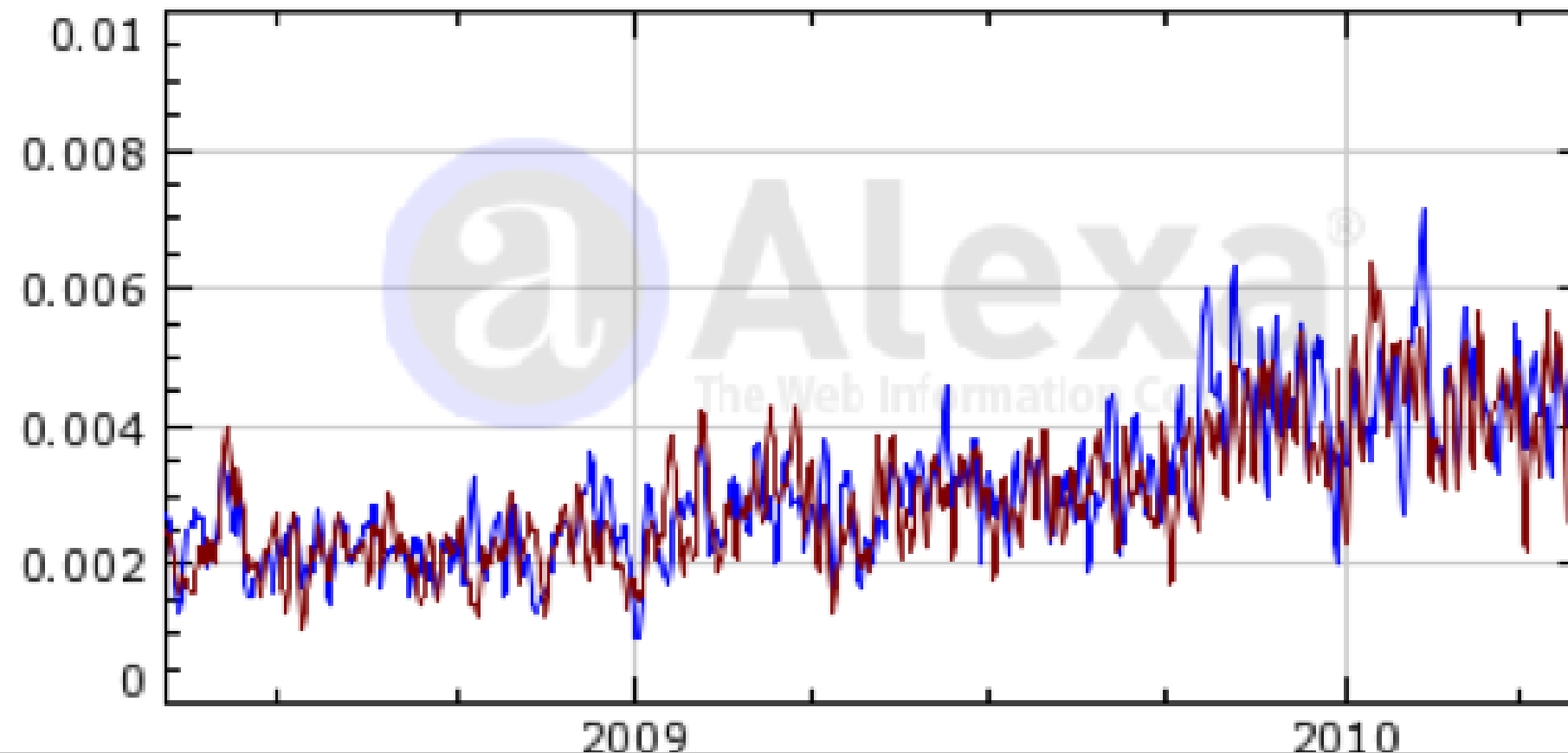
## Cacti

- more than 60.000 visitors per month
- more than 26.000 registered users
- 185.000 posts
- > 200 docs pages



Daily Reach (percent)

[cacti.net](http://cacti.net) [nagios.org](http://nagios.org)

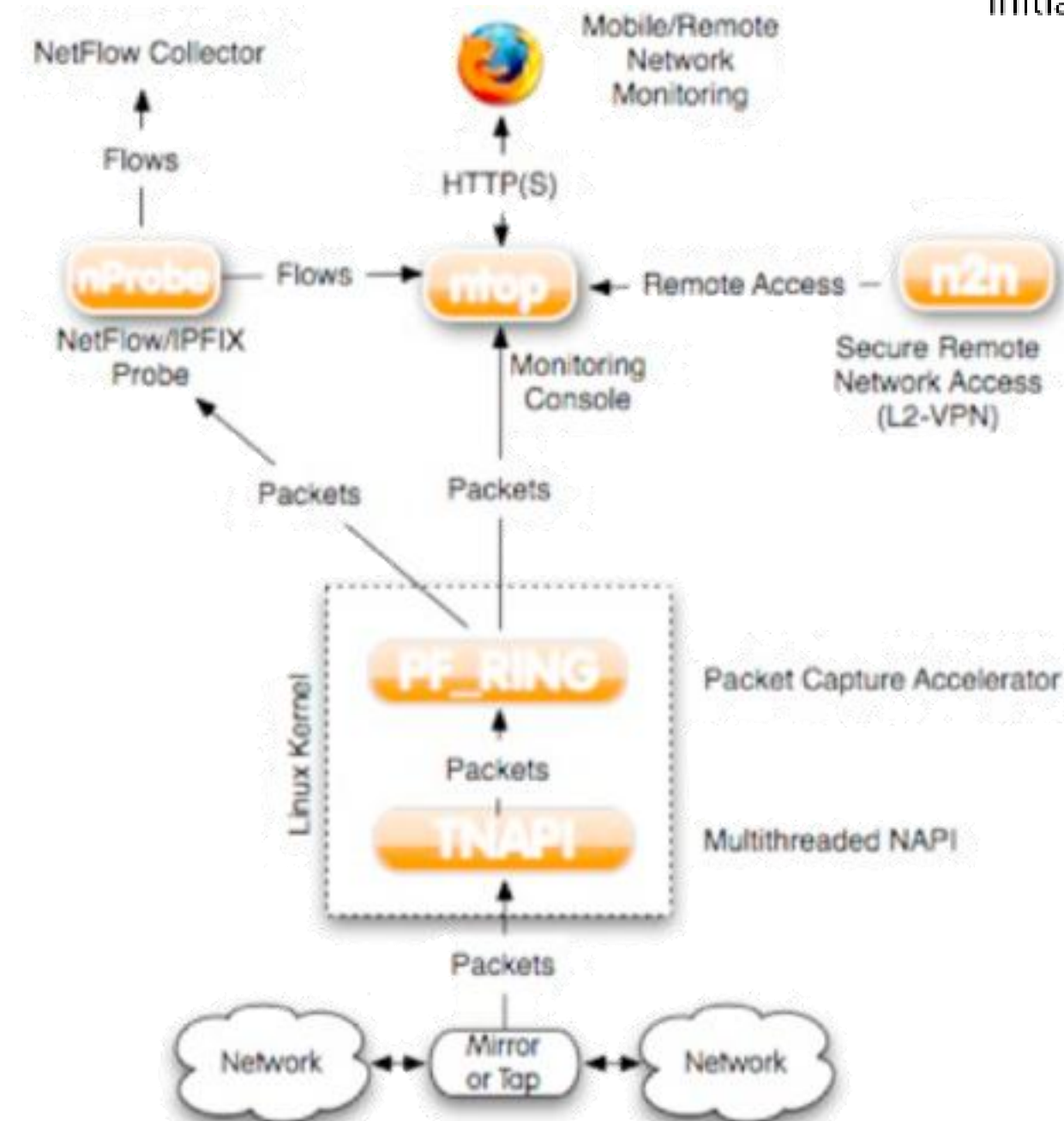


# Network Traffic Monitoring

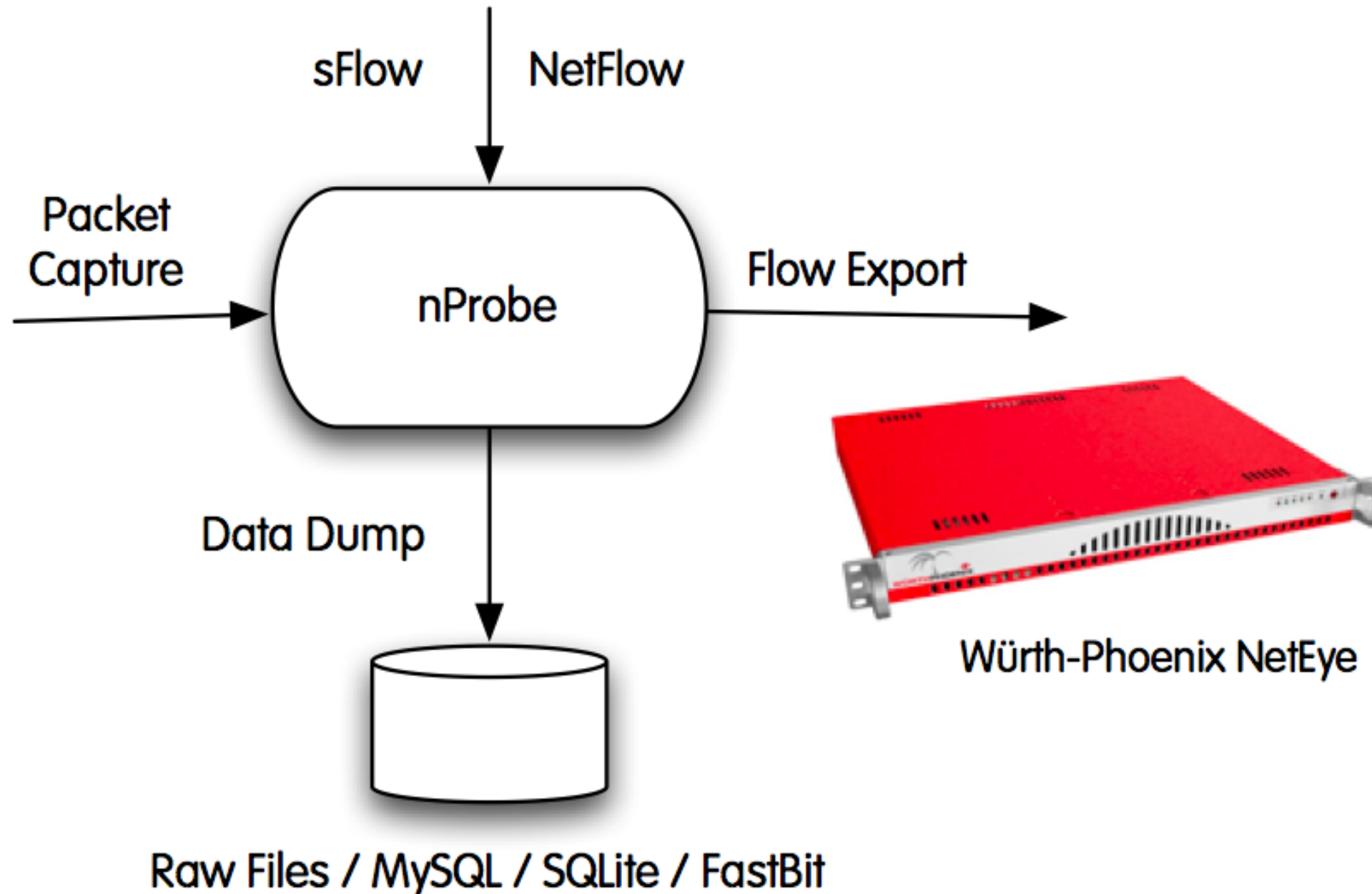
## NTOP



- Top N talkers
- Top N conversations
- Top N Applications (e.g. SAP is using 70%).
- Data volume per entity basis (link, location, region).
- Reports about traffic we don't expect to see on the network

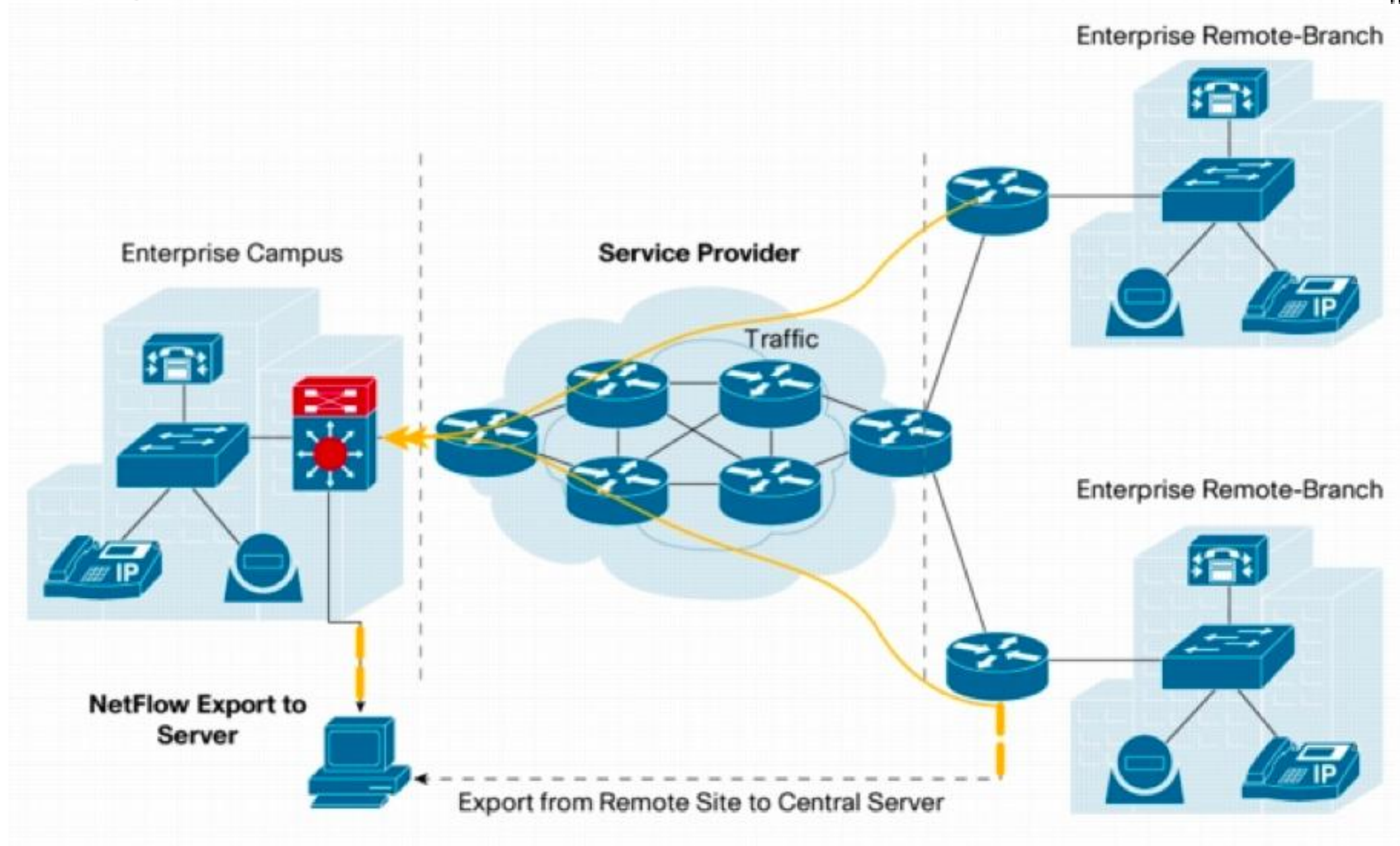


# Network Traffic Monitoring Architecture



Würth-Phoenix NetEye

# Network Traffic Monitoring Deployment Scenario



# Benefits



- Open Source
- Open Architecture with Plugin
- Vibrant Community
- Various content of utilizations
- Easy accessibility
- Early feedbacks from the community
- Collaboration
- Fast distributions